February 14, 2019

DVP-10005

Air Division Director
U.S. Environmental Protection Agency
Attn: AIR-5
75 Hawthorne Street
San Francisco, California 94105

Subject: Desert View Power monitoring report for six month period August 02, 2018 to February 02, 2019.

Dear Sir:

In compliance with our permit, Permit No. CB-OP 99-01, enclosed is the monitoring report for the six month period of August 02, 2018 to February 02, 2019 for Desert View Power

- Form sixmon 6-Month Monitoring Report Parts A through E inclusive.
- Form CTAC.
- Excess Emissions and inoperative report August 02, 2018 to February 02, 2019.
- Monthly reports for August 2018 through February 2019 will be retained on site.
- Copy of 500N AQMD form completed during reporting period.

If you have questions or comments, please feel free to call us at (760) 262-1653.

Sincerely,

James Russell Huffman

Vice- President of CA operations / Plant Manager

Air Pollution Control Officer

Attention: Mr. David Jones, AQMD Supervisor

South Coast Air Quality Management District

21865 E. Copely Drive

Diamond Bar, CA 91765-4182

U.S. ENVIRONMENTAL PROTECTION AGENCY

APPLICATION FOR FEDERAL OPERATING PERMIT, 40 CFR PART 71

APPLICATION FORM CTAC - CERTIFICATION OF TRUTH, ACCURACY, AND COMPLETENESS BY RESPONSIBLE OFFICIAL

INSTRUCTIONS: One copy of this form must be completed, signed, and sent with each submission of documents (i.e., application fom 1S, updates to

applications, reports, or any information required by a part 71 permit).

A. Responsible Official

Name: (Last) Huffman

(First) James

(MI) R

Title Vice President of California Operations/Facility Manager

Street or P.O. Box 62-300 Welmas Dr

City Mecca

State CA

ZIP 92254

Telephone (760_) <u>396-2554</u>

Ext. 115

Facsimile (760) 396-0410

B. Certification of Truth, Accuracy and Completeness (to be signed by the responsible official)

I certify under penalty of law that, based on infonnation and belief formed after reasonable inquiry, the

statements and information contained in these documents are true, accurate and complete.

Name (signed)

_____ Date: 2/15/2019

Name (typed) <u>James R Huffman</u>

Date: 2/15/2019

OMB Control No 2060-0336

U.S. ENVIRONMENTAL PROTECTION AGENCY

FORMS FOR FEDERAL OPERATING PERMITS PROGRAM, 40 CFR PART 71

FORM. SIXMON - 6-MONTH MONITORING REPORT

A-Identifying Information. All facilities must complete this section.

Source or company name <u>Desert View Power</u>

Mailing address: Street or P.O. Box 62-300 Gene Welmas Dr PO Box 758

City Mecca

State: CA ZIP 92254-0758

Contact person: James Russell Huffman

Title: VP of California Operations / Facility Manager

Telephone(760) 396-2554_ Ext. 115

Part 71 permit no. CB-OP 99-01

B. Reporting Period. You must complete this section. The reporting period should be the 6-month, or shorter period, requiredby your part 71 permit.

It will be assumed that the beginning date begins and ends at Midnight (12 A.M.), unless you specify otherwise.

Period beginning: 08/02/2018

Period ending: 02/02/2019

---- CONTINUED ON NEXT PAGE ---

C. Monitoring Report

All sources must complete this section. Use the table below to summarize all required monitoring, data, or analyses for the 6-month (or shorter) period specified in your permitt. In the first column, describe the monitoring, data, or analysis and cross-reference the relevant permit term. In the second column, list the emission units (Unit IDs) upon which the monitoring was performed. Use any Unit IDs assigned in the permit, if no IDs in permit, generally describe. You may list multiple units if all subject to the same monitoring requirements. In the third column indicate whether a separate monitoring report is required. Lastly, complete the fourth column only if you are required to submit a separate monitoring report. If submitted previously, indicate the date you submitted it; if submitted for the first time as an attachment to this form, assign an attachment identification (ID), mark the attachment with that ID, and attach the separate monitoring report to this form

Monitoring, Data, or Analysis Requited by the Penni!	Emission Units	Compress Manitaria	D
	(UnitlDs)	Report?	Date of Separate Report Submittal or Attack ent ID
Monitoring report for six-month period from August 02, 2018 to February 02, 2019.			
Reference Permit Conditions II E and III C.	01	_Yes _ No	Attachment ID
		_Yes _ No	Attachment ID
		_Yes _ No	Attachment ID
		_Yes _ No	Attachment ID
		_Yes _ No	Attachment ID
		_Yes _No	Attachment ID
		Yes _ No	Attachment ID
		_Yes _No	'' Attachment ID

D. De iations that Should have been Reported Previously

All sources must complete this section. Use the table below to summarize all deviations from permit terms required to be reported previously (prior to this report). Copy this as many times as necessary to include all such deviations. In the first column, describe and cross-reference the permit terms for which there is a deviation. In the second column, list this ission unit IDs where the deviation occurred, if no IDs are listed in the permit. describe them instead. When reporting the beginning and ending times for deviations, use the 24-houlock(e.g.,midnight or 12 a.m. is 00:00). Zone means time zone (e.g., EST or EDT). In the fourth column, specify the date when the written deviation report was submitted to the permitting authority. Written deviation report was required, butit was not submitted by the required deadline, leave this field blank. Failure to submit a required deviation report (including those required to be be mitted by telephone or fax), or late submittal of such reports is a deviation from permit terms that must be reported in Section E of this form.

it Tenn for Which There is a Deviation	Emission Units (unit IDs)	Deviation Time Periods	11/2
	(444, 223)	Date (mo!day/yr) Time (hr/min) Time Zone	Written Deviation Report Submittal Date (mo/dv/vear)
All deviations are listed under "E" of this report.		Beginning Ending	
		Beginning Ending	
		Beginning Ending	· · · · · · · · · · · · · · · · · · ·
		Beginning Ending	
		Beginning Ending	
		Beginning Ending	

E. Olher Dcvlnliqn5 From Permit Terms

All sources must complete this section. Answer questions I rrougb5 below as a group for each deviation form permit terms that is required to be reported for the first time in this monitoring report form. This page may be used to report three seperate deviations. Copy of this page as many times as necessary to include all such dieviations. Include all such deviations, including those that occurr during starup, shutdown, malfunctions, and upset conditions. Question 1: describe and cross reference the permit terms for which there is a deviation. Question 2: list Emission unit ID (if not available, identify by some other method) where the deviation occurred. Question 3: Report the beginning and ending times for each deviation, use the 24-hour clock. Question 4: Briefly explain (If known) the probably cause of each deviation from permit terms. Question 5: If any corrective actions or prentative measures were taken to avoid these same types of deviation at the same emissions units, briefly describe them. If known include dates when such actions or measures were taken or will be taken in the future.

1. Permit Term for Which There is a Deviation:	2, Emission Units (unit IDs):	2 Time P. 1 1 P.
"See attached pages"		3 Time Period: Date (mo/day/yr) Time (hr:rnin) Time Zone Beginnlng / / Ending / /
	01	Ending / /
Permit Condition II. E. 2		
4.Probable Cause of Deviation:	5. Corrective Actions or Preventive Mo	2000PAC Taban
	or contents reading of Free may of	casures taken:
ļ		
Permit Term for Which There is a Deviation:		
Total Co. Which Photo is a Deviation.	2, Emission Units (unit IDs):	3 Time Period: Date (mo/day/yr) Time (hr:rnin) Time Zone Beginnlng //
		Ending / /
4.Probable Cause of Deviation:	5.0	
	5. Corrective Actions or Preventive Me	easures Taken:
	1	
1 Damit Tam C. While There is David		
Permit Term for Which There is a Deviation:	2, Emission Units (unit IDs):	3 Time Period: Date (mo/day/yr) Time (hr:rnin) Time Zone
		Beginning / / / Ending / /
4. Probable Cause of Deviation:		
Section Classe of Deviation.	5. Corrective Actions or Preventive Mea	asures Taken:

Colmac Energy
NOx ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
									7 (0(10))

Colmac Energy
NOx lb/mmbtu 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action

Colmac Energy NOx lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
NOx lb/hr 3-Hr Rolling	11/13/2018 12:00 PM	12:59 PM	1 hour	31.0	31.0	31.0	30	High NOx reading after calibrations.	Increased ammonia flow to lower 3hr average.
Total	duration		1 hour						

Colmac Energy NOx lbs/day Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Stort	F-4	D	17.1					
i arameter	Start	⊨na	Duration	Value	Min	Max	Limit	Reason	Action
								Ttodoon	Action

Colmac Energy SO2 ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
SO2 ppm @3% O2 3-Hr Rolling	8/19/2018 9:00 PM	11:59 PM	3 hours	31.0	27.0	35.0	27	Limestone not restarted after trip	Restarted system
Total d	luration		3 hours						

Colmac Energy SO2 ppm @3% O2 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
									7 (00/01)

Colmac Energy SO2 lb/mmbtu 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
						man		11000011	Action

Colmac Energy SO2 lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

_									
Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
SO2 lb/hr 3-Hr Rolling	8/19/2018 10:00 PM	11:59 PM	2 hours	14.0	13.0	15.0	12	Limestone not restarted after trip	Restarted system
SO2 lb/hr 3-Hr Rolling	12/9/2018 9:00 AM	9:59 AM	1 hour	12.0	12.0	12.0	12	Combustion of fuel with Sulfur impurities.	Raised O2, reduced fuel, and fed more limestone.
Total	duration		3 hours						

Colmac Energy
CO ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
									71011011

Colmac Energy CO lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
				Value	171111	IVIGA	Little	- I Cason	Action

Colmac Energy
NOx ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	A 41		1,		
i didifictoi	Otalit	End	Duration	Value	Min	Max	Limit	Reason	Action
								11000011	Action

Colmac Energy
NOx lb/mmbtu 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
				· uiu	171111	IVIAA	Littiil	(Veason	Action

Colmac Energy
NOx lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Doromotor	Ctt								
Parameter	Start	End	Duration	Value	Min	Max	Limit	Posson	A -4:
				10.00	141111	IVIGA	LIIIII	Reason	Action

Colmac Energy NOx lbs/day Excess Emissions for 8/2/2018 thru 2/2/2019

Danama -4	01 1								
Parameter	Start	End	Duration	Value	Min	Max	Limit	Doggon	A -4:
			Baradon	Value	141111	IVIAA	Little	Reason	Action

Colmac Energy SO2 ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action

Colmac Energy SO2 ppm @3% O2 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
						max	- Citting	11003011	Action

Colmac Energy SO2 lb/mmbtu 30 SOD Rlg Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Darameter	Charact									
Parameter	Start	⊢nd	Duration	Value	Min	Max	Limit	Resear	Action	
						IIIUX	Little	Reason	Action	

Colmac Energy SO2 lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
SO2 lb/hr 3-Hr Rolling	8/24/2018 4:00 PM	4:59 PM	1 hour	13.0	13.0	13.0	12	High SO2 in fuel.	Backed down load and fuel for short period.
Total	duration		1 hour						

Colmac Energy
CO ppm @3% O2 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	1 114	D	A
	O.C.I.	Lilia	Duration	Value	Min	Max	Limit	Reason	Action
									7100011

Colmac Energy CO lb/hr 3-Hr Rolling Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
CO lb/hr 3-Hr Rolling	12/4/2018 12:00 AM	5:59 AM	6 hours	14.0	13.0	14.0	13	Cal gas regulator failed.	Cal gas regulator replaced, and back in service.
Total	duration		6 hours						

Boilers Stack Excess Emissions

Colmac Energy
Opacity % 3-Min Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Doromotor	044								
Parameter	Start	⊨nd	Duration	Value	Min	Max	Limit	Reason	Action
						MidA	Little	rtcason	Action

Boilers Stack Excess Emissions

Colmac Energy
Opacity % 6-Min Avg Excess Emissions for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	1/-1	5 At			_	
,	Otart	⊨nd	Duration	Value	Min	Max	Limit	Reason	Action
							-111111	i (Casoni	Action

Boiler 1 CEMS Downtime

Colmac Energy NOx ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx ppm @3% O2	8/8/2018 5:00 AM	9:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx ppm @3% O2	8/23/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/27/2018 12:00 PM	6:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx ppm @3% O2	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
NOx ppm @3% O2	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/24/2018 1:00 AM	2:59 AM	2 hours	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
NOx ppm @3% O2	12/28/2018 10:00 AM	10:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Total duration

108 hours

Boiler 1 CEMS Downtime

Colmac Energy NOx lb/mmBtu CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx lb/mmBtu	8/8/2018 5:00 AM 9:59 AM 5 hours CEM out of service for maintenance.			Maintenance completed, CEM back in service.	
NOx lb/mmBtu	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/mmBtu	8/23/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/27/2018 12:00 PM	6:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/mmBtu	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/mmBtu	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
NOx lb/mmBtu	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/18/2018 11:00 AM		1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/24/2018 1:00 AM	2:59 AM	2 hours	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
NOx lb/mmBtu	12/28/2018 10:00 AM	10:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Total duration

108 hours

Boiler 1 CEMS Downtime

Colmac Energy NOx lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx lb/hr	8/8/2018 6:00 AM	10:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
IOx lb/hr	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
IOx lb/hr	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/24/2018 1:00 AM	1:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer, communications back.

Parameter	Start	End	Duration	Reason	Action
NOx lb/hr	12/28/2018 10:00 AM	10:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
	Total duration		76 hours		The state of the s

Boiler 1 CEMS Downtime

Colmac Energy SO2 ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 ppm @3% O2	maintenance.			Maintenance completed, CEM back in service.	
SO2 ppm @3% O2	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 ppm @3% O2	8/23/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/27/2018 12:00 PM	6:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 ppm @3% O2	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
SO2 ppm @3% O2	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for	Maintenance completed, CEM
SO2 ppm @3% O2	12/15/2018 10:00 PM	11:50 DM	2 hours	maintenance.	back in service.
•			2 nours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM
SO2 ppm @3% O2	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for	back in service. Maintenance completed, CEM
SO2 ppm @3% O2	12/24/2010 1.00 AAA	0.50.444		maintenance.	back in service.
002 ppin @3% 02	12/24/2018 1:00 AM 2:59 AM	2:59 AM	2 hours	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
To	otal duration		107 hours		

Colmac Energy SO2 lb/mmBtu CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 lb/mmBtu	8/8/2018 5:00 AM	9:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/mmBtu	8/23/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/27/2018 12:00 PM	6:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/mmBtu	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/mmBtu	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
SO2 lb/mmBtu	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/24/2018 1:00 AM	2:59 AM	2 hours	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
	Total duration		107 hours		

Colmac Energy SO2 lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 lb/hr	8/8/2018 6:00 AM	10:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/hr	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	9/16/2018 12:00 AM	7:59 AM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/hr	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/hr	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/hr	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/24/2018 1:00 AM	1:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
	Total duration		72 hours		

Colmac Energy CO ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
CO ppm @3% O2	8/8/2018 5:00 AM	9:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/8/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/12/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO ppm @3% O2	8/23/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/23/2018 7:00 PM	7:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/16/2018 12:00 AM	9:59 AM	10 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	10/5/2018 12:00 PM	12:59 PM	1 hour	CEM OUT OF SERVICE FOR MAINTENANCE	MAINTENACE COMPLETE, CEM BACK IN SERVICE
CO ppm @3% O2	10/6/2018 12:00 PM	12:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/7/2018 12:00 PM	1:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/27/2018 12:00 PM	6:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	11/11/2018 12:00 PM	1:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.

Parameter	Start	End	Duration	Reason	Action
CO ppm @3% O2	11/23/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/1/2018 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/3/2018 12:00 AM	12:59 AM	1 hour	Boiler shutdown.	Boiler work completed, and back online.
CO ppm @3% O2	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/24/2018 1:00 AM	2:59 AM	2 hours	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
CO ppm @3% O2	1/5/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	2/2/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance complete, CEM back in service.

Colmac Energy CO lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
CO lb/hr	8/8/2018 6:00 AM	10:59 AM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	8/12/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO lb/hr	8/23/2018 7:00 PM	7:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/15/2018 7:00 AM	11:59 PM	17 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/16/2018 12:00 AM	9:59 AM	10 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	10/5/2018 12:00 PM	12:59 PM	1 hour	CEM OUT OF SERVICE FOR MAINTENANCE	MAINTENACE COMPLETE, CEM BACK IN SERVICE
CO lb/hr	10/6/2018 12:00 PM	12:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/31/2018 2:00 PM	11:59 PM	10 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	11/1/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	11/17/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
O lb/hr	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
O lb/hr	12/3/2018 12:00 AM	12:59 AM	1 hour	Boiler shutdown.	Boiler work completed, and back online.
CO lb/hr	12/5/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
O lb/hr	12/10/2018 2:00 AM	2:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
O lb/hr	12/10/2018 4:00 AM	6:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	12/15/2018 10:00 PM	11:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
CO lb/hr	12/16/2018 12:00 AM	11:59 AM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	12/18/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	12/24/2018 1:00 AM	1:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
CO lb/hr	1/5/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	2/2/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance complete, CEM back in service.
	Total duration		93 hours		

Colmac Energy NOx ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx ppm @3% O2	8/11/2018 2:00 AM	7:59 AM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx ppm @3% O2	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	10/27/2018 1:00 PM	6:59 PM	6 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx ppm @3% O2	11/1/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	11/3/2018 11:00 AM	6:59 PM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.

Parameter	Start	End	Duration	Reason	Action
NOx ppm @3% O2	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/7/2018 4:00 PM	6:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/8/2018 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/8/2018 6:00 PM	11:59 PM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/9/2018 12:00 AM	3:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/13/2018 4:00 PM	10:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	12/24/2018 2:00 AM	2:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
NOx ppm @3% O2	1/10/2019 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx ppm @3% O2	1/15/2019 2:00 AM	10:59 AM	9 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Colmac Energy NOx lb/mmBtu CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx lb/mmBtu	8/11/2018 2:00 AM	7:59 AM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/mmBtu	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	10/27/2018 1:00 PM	6:59 PM	6 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/mmBtu	11/1/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	11/3/2018 11:00 AM	6:59 PM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/mmBtu	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.

Parameter	Start	End	Duration	Reason	Action
NOx lb/mmBtu	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/7/2018 4:00 PM	6:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/8/2018 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/8/2018 6:00 PM	11:59 PM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/9/2018 12:00 AM	3:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/13/2018 4:00 PM	10:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	12/24/2018 2:00 AM	2:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer,
NOx lb/mmBtu	1/10/2019 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/mmBtu	1/15/2019 2:00 AM	10:59 AM	9 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Colmac Energy NOx lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
NOx lb/hr	8/11/2018 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	8/11/2018 2:00 PM	2:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
NOx lb/hr	11/3/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
NOx lb/hr	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/4/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
NOx lb/hr	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/18/2018 7:00 AM	7:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	12/24/2018 2:00 AM	2:59 AM	1 hour	Communication failure, false readings.	Rebooted Cedar's computer, communications back.
NOx lb/hr	1/8/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	1/10/2019 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
NOx lb/hr	1/15/2019 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
	Total duration		109 hours		

Colmac Energy SO2 ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 ppm @3% O2	8/11/2018 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 ppm @3% O2	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	10/27/2018 1:00 PM	6:59 PM	6 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 ppm @3% O2	11/1/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	11/3/2018 11:00 AM	6:59 PM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.

Parameter	Start	End	Duration	Reason	Action
SO2 ppm @3% O2	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/7/2018 4:00 PM	6:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/8/2018 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/8/2018 6:00 PM	11:59 PM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/9/2018 12:00 AM	3:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/13/2018 4:00 PM	10:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	1/10/2019 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 ppm @3% O2	1/15/2019 2:00 AM	10:59 AM	9 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Colmac Energy SO2 lb/mmBtu CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 lb/mmBtu	8/11/2018 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/mmBtu	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	10/27/2018 1:00 PM	6:59 PM	6 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/mmBtu	11/1/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM
SO2 lb/mmBtu	11/3/2018 11:00 AM	6:59 PM	8 hours	CEM out of service for maintenance.	back in service. Maintenance completed, CEM
O2 lb/mmBtu	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for	back in service. CGA testing completed, CEM
SO2 lb/mmBtu	11/21/2018 10:00 AM	10:59 AM	1 hour	CGA testing. CEM taken out of service for CGA testing.	placed back in service. CGA testing completed, CEM placed back in service.

Parameter	Start	End	Duration	Reason	Action
SO2 lb/mmBtu	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/7/2018 4:00 PM	6:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/8/2018 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/8/2018 6:00 PM	11:59 PM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/9/2018 12:00 AM	3:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/13/2018 4:00 PM	10:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	1/10/2019 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/mmBtu	1/15/2019 2:00 AM	10:59 AM	9 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Colmac Energy SO2 lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
SO2 lb/hr	8/11/2018 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	8/11/2018 2:00 PM	2:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
SO2 lb/hr	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/hr	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/hr	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/hr	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
SO2 lb/hr	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM
SO2 lb/hr	11/3/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	back in service Maintenance completed, CEM
SO2 lb/hr	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	back in service. CGA testing completed, CEM
SO2 lb/hr	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	placed back in service. CGA testing completed, CEM
SO2 lb/hr	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	placed back in service. Maintenance completed, CEM
SO2 lb/hr	12/4/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	back in service. Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
SO2 lb/hr	12/9/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	12/18/2018 7:00 AM	7:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	1/8/2019 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	1/10/2019 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
SO2 lb/hr	1/15/2019 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Colmac Energy CO ppm @3% O2 CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
CO ppm @3% O2	8/11/2018 2:00 AM	7:59 AM	6 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/11/2018 11:00 AM	11:59 AM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO ppm @3% O2	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/16/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/24/2018 12:00 AM	5:59 PM	18 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/27/2018 9:00 PM	11:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	9/28/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/16/2018 11:00 AM	11:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	10/27/2018 1:00 PM	6:59 PM	6 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO ppm @3% O2	11/1/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
CO ppm @3% O2	11/3/2018 11:00 AM	6:59 PM	8 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	11/3/2018 8:00 PM	8:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	11/21/2018 8:00 AM	8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO ppm @3% O2	11/21/2018 10:00 AM	10:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO ppm @3% O2	11/30/2018 4:00 PM	7:59 PM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/1/2018 1:00 PM	4:59 PM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/2/2018 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/4/2018 6:00 AM	8:59 AM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/7/2018 4:00 PM	6:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/7/2018 10:00 PM	10:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/8/2018 3:00 AM	6:59 AM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/8/2018 3:00 PM	3:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/8/2018 5:00 PM	11:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/9/2018 12:00 AM	1:59 PM	14 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/13/2018 4:00 PM	10:59 PM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/14/2018 12:00 AM	1:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	1/5/2019 1:00 PM	3:59 PM	3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	1/10/2019 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO ppm @3% O2	1/12/2019 8:00 AM	7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
CO ppm @3% O2	1/15/2019 2:00 AM	11:59 AM	10 hours	CEM out of service for	Maintenance completed, CEM
CO ppm @3% O2	2/2/2019 1:00 PM	2:59 PM	2 hours	maintenance. CEM out of service for maintenance.	back in service. Maintenance complete, CEM back in service.
To	otal duration		172 hours		

Colmac Energy
CO lb/hr CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	Action
CO lb/hr	8/11/2018 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	8/11/2018 2:00 PM	2:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	8/13/2018 8:00 AM	9:59 AM	2 hours	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO lb/hr	8/24/2018 1:00 PM	1:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/16/2018 12:00 PM	12:59 PM	1 hour	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/23/2018 1:00 PM	11:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/24/2018 12:00 AM	6:59 AM	7 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/24/2018 7:00 AM	7:59 AM	1 hour	Not specified	Maintenance completed, CEM back in service.
CO lb/hr	9/24/2018 8:00 AM	5:59 PM	10 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	9/28/2018 5:00 AM	6:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	10/6/2018 1:00 PM	1:59 PM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/7/2018 1:00 AM	1:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/7/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/14/2018 1:00 PM	2:59 PM	2 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/14/2018 5:00 PM	11:59 PM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/15/2018 12:00 AM	6:59 AM	7 hours	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	10/16/2018 11:00 AM	11:59 AM	1 hour	Cem Out Of Service for Maintenance	Maintenance complete, CEM back in service
CO lb/hr	11/3/2018 11:00 AM	3:59 PM	5 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.

Parameter	Start	End	Duration	Reason	
CO lb/hr	11/3/2018 8:00 PM	8:59 PM			Action
CO lb/hr	11/21/2018 8:00 AM		1 hour	CEM out of service for maintenance.	Maintenance completed, CEN back in service.
CO lb/hr		8:59 AM	1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
CO lb/hr	11/21/2018 10:00 AM		1 hour	CEM taken out of service for CGA testing.	CGA testing completed, CEM placed back in service.
	11/30/2018 4:00 PM	7:59 PM	4 hours	CEM out of service for maintenance.	Maintenance completed, CEM
CO lb/hr	12/1/2018 1:00 PM	4:59 PM	4 hours	CEM out of service for	back in service. Maintenance completed, CEM
CO lb/hr	12/4/2018 6:00 AM	8:59 AM	3 hours	maintenance. CEM out of service for	back in service. Maintenance completed, CEM
CO lb/hr	12/4/2018 11:00 AM	11:59 AM	1 hour	maintenance. CEM out of service for	back in service. Maintenance completed, CEM
CO lb/hr	12/7/2018 10:00 PM	10:59 PM	1 hour	maintenance. CEM out of service for	back in service.
CO lb/hr	12/8/2018 3:00 PM	3:59 PM	1 hour	maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	12/8/2018 5:00 PM	7:59 PM		CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr			3 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
	12/9/2018 4:00 AM	1:59 PM	10 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
CO lb/hr	12/14/2018 12:00 AM	1:59 AM	2 hours	CEM out of service for maintenance.	Maintenance completed, CEM
CO lb/hr	12/14/2018 9:00 AM	10:59 AM	2 hours	CEM out of service for	back in service. Maintenance completed, CEM
CO lb/hr	12/18/2018 7:00 AM	7:59 AM	1 hour	maintenance. CEM out of service for	back in service. Maintenance completed, CEM
CO lb/hr	1/5/2019 1:00 PM	3:59 PM	3 hours	maintenance. CEM out of service for	back in service.
O lb/hr	1/8/2019 1:00 PM	1:59 PM	1 hour	maintenance.	Maintenance completed, CEM back in service.
O lb/hr	4444	6:59 AM		CEM out of service for maintenance.	Maintenance completed, CEM back in service.
O lb/hr	4/40/00 40 0 0 0 0		4 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
		7:59 PM	12 hours	CEM out of service for maintenance.	Maintenance completed, CEM back in service.
O lb/hr	1/15/2019 2:00 AM	12:59 PM	11 hours	CEM out of service for maintenance.	Maintenance completed, CEM
O lb/hr	2/2/2019 1:00 PM	2:59 PM	2 hours	CEM out of service for maintenance.	back in service. Maintenance complete, CEM back in service.

Parameter	Start	End	Duration	Reason	Action
	Total duration		141 hours		

Boilers Stack CEMS Downtime

Colmac Energy Opacity % 6-Min Avg CEMS Downtime for 8/2/2018 thru 2/2/2019

Parameter	Start	End	Duration	Reason	A -4:
Opacity % 6-Min Avg	8/8/2018 11:30 AM	11:35 AM			Action
Opacity % 6-Min Avg	8/10/2018 5:36 AM	5:47 AM	6 minutes	Not specified	
Opacity % 6-Min Avg			12 minutes	Cleaned and cailbrated opacity monitor at stack.	Completed calibration and placed back in service.
•	8/22/2018 6:42 AM	6:53 AM	12 minutes	Cleaned and cailbrated opacity monitor at stack.	Completed calibration and placed back in service.
Opacity % 6-Min Avg	8/22/2018 7:48 AM	8:35 AM	48 minutes	Cleaned and cailbrated opacity monitor at stack.	Completed calibration and placed back in service.
Opacity % 6-Min Avg	8/22/2018 8:48 AM	11:29 AM	2 hours, 42 minutes	Cleaned and cailbrated opacity monitor at stack.	Completed calibration and
Opacity % 6-Min Avg	8/22/2018 11:36 AM	11:59 PM	12 hours, 24 minutes	Cleaned and cailbrated opacity	placed back in service. Completed calibration and
Opacity % 6-Min Avg	8/23/2018 12:00 AM	1:29 AM	1 hour, 30 minutes	monitor at stack. Cleaned and callbrated opacity	placed back in service. Completed calibration and
Opacity % 6-Min Avg	9/20/2018 8:36 AM	11:29 AM	2 hours, 54 minutes	monitor at stack. Cleaned and cailbrated opacity	placed back in service. Completed calibration and
Opacity % 6-Min Avg	9/20/2018 11:42 AM	1:05 PM	1 hour, 24 minutes	monitor at stack. Cleaned and cailbrated opacity	placed back in service. Completed calibration and
Opacity % 6-Min Avg	9/21/2018 12:30 AM	11:29 AM	11 hours	monitor at stack. Cleaned and cailbrated opacity	placed back in service.
Opacity % 6-Min Avg	9/21/2018 11:42 AM	1:23 PM	1 hour, 42 minutes	monitor at stack.	Completed calibration and placed back in service.
Opacity % 6-Min Avg	9/22/2018 11:42 AM	12:17 PM		Cleaned and cailbrated opacity monitor at stack.	Completed calibration and placed back in service.
Opacity % 6-Min Avg			36 minutes	Cleaned and cailbrated opacity monitor at stack.	Completed calibration and placed back in service.
•	9/25/2018 9:06 AM	9:17 AM	12 minutes	Cleaned and cailbrated opacity monitor at stack.	Cleaned and cailbrated opacit monitor at stack.
Opacity % 6-Min Avg	9/25/2018 9:30 AM	9:41 AM	12 minutes	Cleaned and cailbrated opacity monitor at stack.	Cleaned and cailbrated opacit monitor at stack.
Opacity % 6-Min Avg	9/25/2018 10:12 AM	10:17 AM	6 minutes	Cleaned and cailbrated opacity monitor at stack.	Cleaned and cailbrated opacit
Opacity % 6-Min Avg	10/1/2018 7:06 AM	7:17 AM	12 minutes	Calibrating stack opacity monitor.	monitor at stack. Calibration complete, monitor
Opacity % 6-Min Avg	10/1/2018 9:00 AM	10:05 AM	1 hour, 6 minutes	Calibrating stack opacity monitor.	back in service. Calibration complete, monitor
Opacity % 6-Min Avg	10/1/2018 11:00 AM	11:29 AM	30 minutes	Calibrating stack opacity monitor.	back in service.
Ppacity % 6-Min Avg	10/1/2018 11:42 AM	11:59 PM	12 hours, 18 minutes	Calibrating stack opacity monitor.	back in service.

Parameter	Start	End	Duration	Reason	Action
Opacity % 6-Min Avg	10/2/2018 12:00 AM	10:59 AM	11 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/2/2018 10:00 PM	11:59 PM	2 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/3/2018 12:00 AM	6:53 AM	6 hours, 54 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/3/2018 9:00 AM	10:59 AM	2 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/3/2018 11:12 AM	11:29 AM	18 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/3/2018 10:00 PM	11:59 PM	2 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/4/2018 12:00 AM	9:11 AM	9 hours, 12 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/4/2018 11:12 AM	10:11 PM	11 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/5/2018 9:00 AM	9:47 AM	48 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/5/2018 11:12 AM	3:41 PM	4 hours, 30 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/5/2018 10:00 PM	10:11 PM	12 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/10/2018 9:42 AM	10:29 AM	48 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/10/2018 10:36 AM	10:59 AM	24 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/10/2018 11:12 AM	1:11 PM	2 hours	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/10/2018 2:18 PM	2:23 PM	6 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/10/2018 3:30 PM	3:41 PM	12 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor
Opacity % 6-Min Avg	10/11/2018 7:54 AM	8:05 AM	12 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	10/11/2018 11:12 AM	9:17 PM	10 hours, 6 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	12/14/2018 2:30 PM	3:47 PM	1 hour, 18 minutes	Calibrating stack opacity monitor.	
Ppacity % 6-Min Avg	12/17/2018 8:06 AM	8:17 AM	12 minutes	Calibrating stack opacity monitor.	back in service. Calibration complete, monitor back in service.

Parameter	Start	End	Duration	Reason	
Opacity % 6-Min Avg	12/24/2018 12:30 AM	12:25 AM			Action
Opacity % 6-Min Avg			6 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor back in service.
•	12/24/2018 12:42 AM		6 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor back in service.
Opacity % 6-Min Avg	12/24/2018 1:06 AM	1:17 AM	12 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	12/24/2018 1:54 AM	2:05 AM	12 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor
Opacity % 6-Min Avg	12/24/2018 2:30 AM	2:35 AM	6 minutes	Calibrating stack opacity monitor.	
Opacity % 6-Min Avg	12/24/2018 3:54 AM	3:59 AM	6 minutes	Calibrating stack opacity monitor.	back in service. Calibration complete, monitor
Opacity % 6-Min Avg	12/24/2018 4:30 AM	4:35 AM	6 minutes	Calibrating stack opacity monitor.	back in service. Calibration complete, monitor
Opacity % 6-Min Avg	12/24/2018 4:42 AM	5:11 AM	30 minutes	Calibrating stack opacity monitor.	back in service. Calibration complete, monitor
Opacity % 6-Min Avg	12/24/2018 5:18 AM	5:23 AM	6 minutes	Calibrating stack opacity monitor.	back in service.
Opacity % 6-Min Avg	12/24/2018 5:30 AM	5:35 AM	6 minutes		Calibration complete, monitor back in service.
Opacity % 6-Min Avg	12/24/2018 6:24 AM	6:35 AM		Calibrating stack opacity monitor.	Calibration complete, monitor back in service.
Opacity % 6-Min Avg			12 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor back in service.
	12/24/2018 7:18 AM	7:29 AM	12 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor back in service
Opacity % 6-Min Avg	12/26/2018 11:30 AM	11:53 AM	24 minutes	Calibrating stack opacity monitor.	Calibration complete, monitor
Opacity % 6-Min Avg		7:17 AM	6 minutes	Not specified	back in service.
Ppacity % 6-Min Avg	1/31/2019 2:30 PM	4:35 PM	2 hours, 6 minutes	Opacity monitor out of service for maintenance.	Maintenace complete, opacity monito back in service.

119 hours, 54 minutes



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns*This written report is <u>in addition to</u> requirements to verbally report certain types of incidents. Verbal reports may be made by calling AQMO at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To: SCAQMD P.O. Box 4941 Diamond Bar, CA 91765-0941

Tel: (909) 396-3385 www.aqmd.gov

	tion ! - Operator					4	
1. F	acility Name (Business	Name of Operator That Appears On	Permit):	2. Valid	AQMD Facility ID (Availat	ole On Permit Or Inv	nice Issued Rv
1 5	Desertt View Por	wer		AQM	D):	100154	10000 100000 25
	ddress:	62-300 Gene Welmas I	Or.				
("	where incident occurred)	•	Street	Address	,		
		Mecca			CA	92254	
l		Como as abassa	City		State	Zip	
	ailing Address: different from item 3)	Same as above	Sireet /	Address			- · · · · · · · · · · · ·
5. Pr	ovide the name, title, a	nd phone number of the person to	City contact for further information:		State	Zip	
	Kev	vin Lawrence	Operations	MGR.			
		Name	Title			Phone #	
		of Breakdowns, Deviations	, and Emergencies				····
	is written notification i	s to report a(n):					
Ту	/pe of Incident		Verbal Report Due*		Written Report Due		
a.	Emergency under	Rule 3002(g)	Within 1 hour of discovery		Within 2 working days freexceeded.	om when the emissi	ion limit was
b.	Breakdown under:		•		For Rules 430 & 2004 -	Within 7 calendar da	ave after
	Rule 430 (Nor Rule 2004 (RE	•	For Rules 430 & 2004 - Within 1 discovery.	hour of	breakdown is corrected, start of the breakdown, t granted.	but no later than 30	days from
	Rule 218 (Non See Rule 218	-RECLAIM) (1)(3)]	For Rule 218 – Within 24 hours of day for failure/shutdown exceedi	or next business ng 24 hours	For Rule 218 - With requ	lired semi-annual re	ports.
C.	Deviation with exce [See Title V Permit,	ess emissions , Section K, Condition No. 228]	Within 72 hours of discovery of the shorter reporting period if require applicable State or Federal Regu	d by an	Within 14 days of discov	ery of the deviation.	
d.	Other Deviation [See Title V Permit,	Section K, Condition Nos. 22D & 23	None		With required semi-annu	al monitoring report	5.
		MACHU O	. ••••				
2. The	Incident was first disc	overed by: William Contrer	as Name	on	08/19/2018	09:00	CAM
			Name		Date	Time	PM I
3. The	incident was first repo		of AQMD Staff Person	on	08/20/2018	01:45	♠ AM
a. 〈	Via Phone	Hans	or admin agait Leizott		Date	Time	C PM
ъ. (In Person		Notific	cation Number (F	Required): 526471		j
1. Whe	en did the incident actu	ally occur? 08/19/201 Date	 '	AM PM			
	Received By:		Assigned By:		Inspector:		
	Date/Time Received:		Date/Time Assigned:		Date/Time Receiv	ed Assignment	
QMD	Date Delivered To Tea	m:	Date Reviewed Inspector Report:		Date Inspected Fa		
use DNLY	Team:	Sector:	Breakdown/Deviation Notification No	0,	Date Completed R	Report:	
	Recommended Action:	Cancel Notification Grad	nt Relief Issue NOV No		Other:		
	Final Action:	Cancel Notification Gran	at Relief Issue NOV No		Other:		

1 -	Has the incident stopped?	a. (• Yes, i	on:	08/19/2	018					
			····	Date			11:00	_ C AM	b, C No	
6.	What was the total duration o	of the inciden	ut?	0			Time	PM	51.5 110	
1							02			
 '.	For equipment with an operat when was the end of the oper	ting cycle, as rating cycle d	defined in Ru				Hours			
8.	Describe the incident and idea	Olify each alo	non of a-vito				Data			
	Describe the incident and ider equipment and attach addition Unit #1 CFM So2 except	nal pages as	necessary.	ent (by permit, a	pplication, or de	vice number) affected. Atta	ch photos (who	Time	
1	Unit #1 CEM So2 excee	edences.	So2 3% O	2 3/HR rolling	1 evcoodo			,	an demiable) of the	arected
9.	The trade of				- ovecedelic	es, 502 L	BS/HR 3 HF	R rolling exc	eedences.	
3.	The incident may have resulted	d in a:	F-5.4	_						
	a. X Violation of Permit Condi		EPA peri	mit CB-OP 9	9-01 II.A.	. Emissio	n Limits S	O2 limite		
40	b. Violation of AQMD Rule(s	:}·						minto,		
10.	What was the probable cause o	f the inciden	t? Attach add	ditional pages as	necessary					
		IIMACTANA				The ones				
-	resulted in 2 separate e	xceedance	es. SO2 lb	s/hr 14.0 lb/h	r and SO2 pt	me open om @ 3%	ator restarte	d the limest	one system. T	his
11. C	Did the incident result in excess	emissions?		-		- 5070	02 31.0			
	7,000			·Yes (Comple						
_	7.00	-			_	3 sox	14.000	O lbs] H2S	
	OF RECLAIM facilities Culture	_lbs	□ PM						J /120	
W	or RECLAIM facilities Subject to hen determining compliance wi Yes, for: Nox	0 <i>Rule 2004 ()</i> ith your annu	<i>1)(3) ONLY:</i> If	excess emission	is of NOx and/or	SOx were re	enoting it is			pollut
a.	☐ Yes, for: ☐ NOx ☐	SU^	al allocations	57			sported in item	11, do you wan	it these emissions	to be cou
Jf I	box 12/h) above is checked inch	30X	b. C No, fo	or: 🗆 Nox 🛭	Jsox					
		De all informat	fion on a 25 of a							
av	box 12(b) above is checked, includes escribe the steps taken to correct old future incidents. Include photarted the limestone syst	otos of the fa	m (I.e., steps aileri equinma	taken to mitigate	excess emissio	ns, equipme	nt repairs, etc.) necessary.	and the prever	ntative measures e	employed (
av S — . Wa	old future incidents. Include ph tarted the limestone syst s the facility operating properly	otos of the fatem. Place	m (i.e., steps ailed equipme the CEM	taken to mitigate	excess emissio	ns, equipme	nt repairs, etc.) necessary. iler trip.	and the prever	ntative measures e	employed (
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Boiler 1 Excess Emissions

Colmac Energy SO2 lb/hr 3-Hr Rolling Excess Emissions for 8/19/2018

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
SO2 lb/hr 3-Hr Rolling	8/19/2018 10:00 PM	11:59 PM	2 hours	14.0	13.0	15.0	12	Limestone not restarted after trip	Restarted system
Total	duration		2 hours				~ <u>~~~~~</u>		

Boiler 1 Excess Emissions

Colmac Energy SO2 ppm @3% O2 3-Hr Rolling Excess Emissions for 8/19/2018

				9 =/	CC33 LII	110010110 11	JI O/ I S /₄	2018	
Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	A - 41
SO2 ppm @3% O2 3-Hr Rolling	8/19/2018 9:00 PM	11:59 PM	3 hours	31.0	27.0	35.0	27	Limestone not restarted after trip	Action Restarted system
Total d	uration		3 hours						

Colmac Energy Mecca, CA

Boiler 1 Daily Emissions Report August 19, 2018

Daily NOx lbs- 648

Emission Limits
30-Day Rolling
48
NOx Ib/mmBtu - 0.3
SO2 Ib/mmBtu - 1.2

Hour	02%	NOx ppm	NOx ppm @3% O2	NOx lb/mmBtu	NOx lbs	SO2 ppm	SO2 ppm @3% O2	SO2 lb/mmBlu	SO2 lbs	CO ppm	CO ppm @3% O2	CO lb/mmBtu	CO lbs	Process Status
- 00	10.5	48.7	83.8	0.117	25.72	7.2	12.4	0.024	5.27	10.0	17.2	0.015	3.21	Normal
01	10.1	49.6	82.2	0.115	24.44	10.2	16.9	0.033	7.06	10.0	16.6	0.014	3.02	Normal
02	10.3	47.9	80.9	0.113	24.72	6.2	10.5	0.020	4.44	10.0	16.9	0.014	3.14	Normal
03	9.5	50.4	79.1	0.110	25.26	8.2	12.9	0.025	5.74	10.0	15.7	0.013	3.06	Normal
04	9.4	54.1	84.2	0.117	26.77	10.5	16.3	0.032	7.19	10.2	15.9	0.013	3.07	Normal
05	9.4	53.2	82.8	0.116	26.56	11.3	17.6	0.034	7.86	10.6	16.5	0.014	3.21	Normal
06	10.1	50.6	83.9	0.117	25.44	8.9	14.8	0.029	6.25	10.0	16.6	0.014	3.06	Normal
07	10.3	46.8	79.0	0.110	23.55	11.0	18.6	0.036	7.72	10.0	16.9	0.014	3.05	Normal
08	10.3	51.5	87.0	0.121	26.50	13.1	22.1	0.043	9.44	10.0	16.9	0.014	3.14	Nomal
09	10.2	32.4	54.2	0.076	16.78	7.0	11.7	0.023	5.03	10.0	16.7	0.014	3.13	Normal
10	10.2	42.7	71.4	0.100	21.02	10.3	17.2	0.033	6.98	10.0	16.7	0.014	2.98	Normal
11	10.1	44.5	73.8	0.103	25.69	13.0	21.5	0.042	10.50	10.0	16.6	0.014	3.50	Normal
12	10.2	48.2	80.6	0.113	25.53	9.7	16.2	0.032	7.15	10.0	16.7	0.014	3.23	Normal
13	10.0	50.2	82.4	0.115	24.74	7.8	12.8	0.025	5.34	10.0	16.4	0.014	3.01	Normal
14	10.0	52.4	86.1	0.120	26.47	10.1	16.6	0.032	7.13	10.0	16.4	0.014	3.08	Normal
15	9.5	49.6	77.9	0.109	26.32	9.8	15.4	0.030	7,25	10.4	16.3	0.014	3.36	Normal
16	10.1	46.3	76.7	0.107	24.30	7.5	12.4	0.024	5.49	10.0	16.6	0.014	3.20	Normal
17	9.9	50.8	82.7	0.115	25.72	9.3	15.1	0.029	6.53	10.0	16.3	0.014	3.09	Normal
18	9.5	52.3	82.1	0.115	26.43	11.3	17.7	0.034	7.95	10.1	15.9	0.013	3.10	Normal
19	10.1	49.8	82.5	0.115	25.16	10.1	16.7	0.032	7.16	10.3	17.1	0.014	3.17	Startup
20	10.5	51.0	87.8	0.122	26.56	15.8	27.2	0.053	11.41	10.0	17.2	0.015	3.17	Startup
21	9.9	52.0	84.6	0.118	27.08	23.3	37.9	0.074	16.87	10.0	16.3	0.014	3.17	Startup
22	10,1	49.6	82.2	0.115	25.30	24.7	40.9	0.079	17.56	10.0	16.6	0.014	3.11	Startup
23	10.3	50.4	85.1	0.119	26.23	5.1	8.6	0.017	3.71	10.0	16.9	0.014	3.16	Startup
Average Total 30-Day Ring 365-Day Ring	10.0	49.0	80.5	0.112 0.082	602.29	10.9	17.9	0.035 0.023	187.03 49514	10.1	16.6	0.014	75.4	



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns*This written report is <u>in addition to requirements</u> to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To: SCAQMD P.O. Box 4941 Diamond Bar, CA 91765-0941

Tel: (909) 396-3385 www.aqmd.gov

Secti	ion I - Operator	Informa	tion									
1. Fac	cility Name (Business	Name of C	perator Tha	Appears On Pe	rmit):					ty ID (Availal	ole On Permit Or Inv	oice Issued By
<u>_v</u>	/illiam Contrera	ıs						AQMC 	D):		100154	
3. Add	dress:	62-30	0Gene \	Velmas Dr.								
(wh	ere incident occurred)						Street A	ddress				
1		Mecc	a	····		ity				CA	92254	
		Same			·	чу				State	Zip	
	lling Address: lifferent from Item 3)	Same			-112		Street A	ddress				
5. Pro	vide the name, title, a	and phone	number of	the person to c		ity urther informat	ion:	·		State	Zip	
	Ke	vin Lav	vrence			Operati	ons N	/lanager		(760) 262-1645	
		Name					Title				Phone #	
Secti	on II - Reporting	of Brea	akdowns,	Deviations,	and Eme	rgencies						
	s written notification	is to repo	rt a(n):									
Туј	pe of Incident				Verbal Re	port Due*			Written Re	port Due		
8.	Emergency under	Rule 300	?(g)		Within 1	hour of discover	ry		Within 2 w exceeded		rom when the emiss	ion limit was
b.	Breakdown under Rule 430 (No	on-RECLAI	M)		For Rule: discovery	s 430 & 2004 - \ /.	Mithin 1	hour of	breakdow	n is corrected	Within 7 calendar d , but no later than 30 unless a written ext	days from
	Rule 218 (No	n-RECLAI	M)			218 – Within 24 illure/shuldown		or next business ng 24 hours	•	218 - With req	uired semi-annual re	eports.
C.	Deviation with exc [See Title V Permi	cess emiss it, Section	ions K, Condition	No. 22B]	shorter re	hours of discover porting period in State or Feder	f require	d by an	Within 14	days of disco	very of the deviation	
d. į	Other Deviation [See Title V Permi	it, Section	K, Condition	Nos. 22D & 23]	None				With requi	red semi-ann	ual monitoring repor	ts.
2. The	incident was first dis	scovered I	y: Willia	m Contrera				on	08/24/2		04:00	'C AM
			0	4.0	Name				Date		Time	€ PM
3. The	incident was first rep	ported by:	Operat	OF 1U Name r	of AQMD Sta	off Person		on	08/24/2 Date	018	05:52 Time	C AM ⊕ PM
а. С	Via Phone								5610		Tunc	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ъ. (In Person						Notifi	cation Number	(Required):_	527503		
4. Whe	en did the incident ac	tually occ	ur?	08/24/2018 Date	3	04:00 Time	_ (AM PM				
	Received By:				Assigned E	ly:			Ins	pector:		
	Date/Time Received:	:			Date/Time	Assigned:			Da	te/Time Rece	ived Assignment:	
AQMD	Date Delivered To Te					wed Inspector F			Da	te Inspected I	Facility:	
USE ONLY	Team:		Sector:		Breakdown	Deviation Notifi	ication N	lo.	Da	te Completed	Report:	
	Recommended Actio	on:	Cancel Notifi	cation Gran	at Relief	Issue NOV No	D		(Other:		
	Final Action:		Cancel Notifi	cation Gran	t Relief	Issue NOV No	D			Other:		

one #:		93-1308 Welmas Drive		Mecca			
one#:	(760) 3	93-1308					
		93-1308	ŀ				
	:			U. 1 CA #.			
int Na				6. Fax #:	08/27	/2018	
nt Na	James Rus	ssell Huffman	ł		AA		
U1		D		4. Date:	Jamoin	a Operatio	ns/Plant Manager
	neo MAN	Shum.	-			ia Ono1.	ns/Plant Manager
gridilli F	re of Responsible Official	$(\)$		2. Title of Responsible	Official:	meu m AQMD I	regulation XXX.
nue v	Facilities ONLY: X I also	certify under penalty	of law that that I am the	e responsible official fo	this facility ac dat	inad in AOLIO	North House
omer	nder penalty of law that based materials are true, accurate, a	nd complete.	on tolined after reaso	nable inquiry, the state	ments and informa	lion in this doc	ıment and in all attachments
tify u	nder penalty of law that based	on information and b	elief formed att				
ction	III - Certification Stater	monf	, contemporaneous oper	aling logs or other credib	le evidence.)		
b. 6	Yes (Attach evidence such as	emissions calculations	Contomor				
а. (No, because:	wire!					
	the facility returned to complia	cause.					
a.	the incident result from opera	tor error, neglect or in	nproper operation or m	aintenance procedures	?		
	W. 110, DE						••
. vva	is the facility operating properl Yes b. No, be	y prior to the incident	17				
Si	tarted feeding fuel from	a different location	on.	umestone feed in	to the boiler. R	leduced con	nbustor temps.
R	included to tile	boiler. Increased	air flow Incressed	attach additional page	s as necessary.	and the brever	nauve measures employed to
av	oid future incidents. Include pl	holos of the failed on	steps taken to mitigate	excess emissions, equi	oment repairs, etc.)	and the new	dath
lft.	box 12(b) above is checked, inclusions the correction of the steps taken to corre	urle all information					
					o chorred IV Kew	11, do you wan	t these emissions to be coun
2. Fi W	for RECLAIM facilities Subject in the determining compliance we see Yes, for:	to Rule 2004 (i)(3) ON	LY: If excess emission:	S of NOx and/or SOy we	re reported in live	lbs	polluta
	□ co	lhe Flore] H2S
Į	□ voc	_lbs 🔲 NO:	x		12.50	0	
	Oid the incident result in exces		o 🤄 Yes (Complete	the following and attach	Calculations)		
- ء ندر				3 302 com	ing out of calibi	ation along	with high SO2 in fuel.
	CEM went into calibrati	ion with high SO2	2 lb/hr and resulted	in high SO2 comi	no out of ti		
10. 1	What was the probable cause	Of the incident? Attac	ch additional panes as i	necessary			
	b. Violation of AQMD Rule((s):			,		
	a. X Violation of Permit Cond		permit CB-OP 9	9 Section II A 12			
9.	The incident may have resulte	ed in a			- with with a m	11111 01 12.0 1	o/hr.
1	Fuel had high SO2 res	sulting in SO2 LB	S/HR 3HR rolling	exceedence of 12	5 lb/hr with a li	mit of 40 0 v	n and are order
	Describe the incident and ide equipment and attach addition	onal pages as necessa	luipment (by permit, ap ary.	plication, or device nun	iber) affected. Atta	ch photos (who	Time (**) Time affected
8.	Describe the incident and ide	entify each piece of	nich die incident occur	red?	Date		
7.	For equipment with an opera when was the end of the ope	ating cycle, as defined	•		Hours		
			0 Days		01		
-	What was the total duration		Date		Time	_ (AM (PM	b. C. No
6.	. Has the incident stopped?	a. 🏵 Yes, on:	08/24/20	18	05:00	_	

Colmac Energy Mecca, CA Boiler 2 Daily Emissions Report August 24, 2018

Emission Limits

Dally NOx lbs- 648

30-Day Rolling NOx lb/mmBtu - 0.3 SO2 lb/mmBtu - 1.2

Hour	02%	NOx ppm	NOx ppm @3% O2	NOx lb/mmBlu	NOx lbs	SO2 ppm	SO2 ppm @3% O2	SO2 lb/mmBlu	SO2 lbs	CO ppm	CO ppm @3% O2	CO lb/mmBtu	CO lbs	Process Status
00	9.1	36.6	55.5	0.077	24.79	9.4	14.3	0.028	8.89	10.0	15.2	0.013	4.12	Normal
01	9.1	38.9	59.0	0.082	26.18	13.4	20.3	0.039	12.48	10.0	15.2	0.013	4.09	Normal
02	9.2	40.0	61.2	0.085	27.21	12.4	19.0	0.037	11.73	10.0	15.3	0.013	4.14	Normal
03	9.3	38.6	59.6	0.083	26.32	5.4	8.3	0.016	5.09	10.0	15.4	0.013	4.16	Normal
04	9.3	39.9	61.6	0.086	26.91	8.4	13.0	0.025	7.84	10.0	15.4	0.013	4.11	Normal
05	9.2	37.9	58.0	0.081	25.99	6.9	10.6	0.020	6.59	10.0	15.3	0.013	4.17	Normal
06	9.2	37.6	57.5	080,0	25.80	9.4	14,4	0.028	9.00	10.0	15.3	0.013	4.18	Normal
07	9.2	39.4	60.3	0.084	27.06	7.9	12.1	0.023	7.57	10.0	15.3	0.013	4.19	Normal
08	9.0	38.6	58.1	0.081	26.55	9.3	14.0	0.027	8.91	10.0	15.0	0.013	4.18	Normal
09	9.0	38.0	57.2	0.080	26.18	7.5	11.3	0.022	7.21	10.0	15.0	0.013	4.20	Normal
10	8.9	40.1	59.8	0.083	27.31	10.0	14.9	0.029	9.50	10.0	14.9	0.013	4.15	Normal
11	9.0	38.3	57.6	0.080	26.23	9.4	14.1	0.027	8.93	10.0	15.0	0.013	4.17	Normal
12	8.9	35.7	53.3	0.074	23.70	7.5	11.2	0.022	6.89	10.0	14.9	0.013	4.04	Normal
13	ooc	ooc	OOC	000	ooc	ooc	000	ooc	OOC	000	ooc	ooc	000	Normal
14	9.3	20.4	31.5	0.044	14.91	16.3	25.2	0.049	16.76	10.0	15.4	0.013	4.45	Normal
15	9.8	28.3	45.6	0.064	19.55	12.3	19.8	0.039	11.77	10.0	16.1	0.014	4.20	Normal
16	10.6	31.5	54.7	0.076	21.65	9.3	16.2	0.031	8.93	10.0	17.4	0.015	4.19	Normal
17	10.7	39.4	69.1	0.096	27.18	5.5	9.7	0.019	5.24	10.0	17.5	0.015	4.20	Normal
18	9.4	39.1	60.9	0.085	26.60	7.7	12.0	0.023	7.27	10.0	15.6	0.013	4.14	Normai
19	9.5	40.2	63.1	0.088	27.07	11.5	18.1	0.035	10.79	10.0	15.7	0.013	4.10	Normal
20	9.2	37.9	58.0	0.081	25.81	8.3	12.7	0.025	7.83	10.0	15.3	0.013	4.14	Normal
21	9.0	39.4	59.3	0.083	26.91	8.8	13.2	0.026	8.33	10.0	15.0	0.013	4.16	Normal
22	9.0	35,2	52.9	0.074	23.85	10.4	15.6	0.030	9.75	10.0	15.0	0.013	4.12	Normal
23	9.1	39.4	59.8	0.083	26.90	9.9	15.0	0.029	9.40	10.0	15.2	0.013	4.15	Normal
Average Total 30-Day Ring 365-Day Ring	9.3	37.0	57.1	0.080 0.080	580.66	9.4	14.6	0.028 0.025	206.70 55007	10.0	15.5	0.013	95.8	

Boiler 2 Excess Emissions

Colmac Energy SO2 lb/hr 3-Hr Rolling Excess Emissions for 8/24/2018

							., 20.0		
Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Aation
SO2 lb/hr 3-Hr Rolling	8/24/2018 4:00 PM	4:59 PM	1 hour	13.0	13.0	13.0	12	Not specified	Action
Total	duration		1 hour				······································	•	

_							
5.	Has the incident stopped? a. (Yes, on:	11/13/201	Ω	00.00			
	a. a. res, on.	Date		02:00	_ C AM	b. C. No	
6.	What was the total duration of the incident?	0		Time	♠ PM		
		Dave		01	_		٠
7.		and in Dut. doe a service		Hours			
	amen was the end of the operating cycle during) which the incident occurre		11/13/2018		01:00	C .
8.	equipment and attach additional pages as nece	f equipment (by permit, app. ssarv.	lication, or device n	Date mber) affected. Att	ach photos (wh	Time ren available) of the a	(A
	We were experiencing higher Nov av	erages for the bus b-					alibration
9.		ie source of fuel being	g fed. This inflate	ed the last hour	s NOx avera	age.	411014141011
		A Permit CB-OP 99	2.04 !! ^ 45				
			9-01 II.A. 15				
40	b. Violation of AQMD Rule(s):						
10.	What was the probable cause of the incident? A	ttach additional pages as n	ecessary.				·
	As a result of the higher NOx average calibration our three hour average ex	es for the first two hou	irs and the inflat	ed NOx average	e in the third	l hour booning th	- OEM
			imit is 30 lbs/hr	we exceeded at	30.52 lbs/h	rnour because (r r.	ie CEIVI
11.	Did the incident result in excess emissions?		the following and atta				
	□ vocibs ⊠	NO. 30 520		ich calculations.)			
		NOx30.520	∐lbs ∐ SOx		lbs	☐ H2S	lbs
10	COibs	PM	_lbs 🔲 Othe	er:			
12.	For RECLAIM facilities Subject to Rule 2004 (1)(3) when determining compliance with your annual a	ONLY: If excess emissions	of NOx and/or SOx	were reported in Iter	n 11. do vou w	ant these amissions t	poliutant
				•	,,,	ant brese entissions (o ne counte
	If box 12(b) above is checked, include all information	No, for: Nox	180x				
8	Describe the steps taken to correct the problem (is avoid future incidents. Include photos of the failed	.e., steps taken to miligale (I equipment if available and	excess emissions, e	quipment repairs, etc	c.) and the prev	entative measures en	nployed to
	Reduced fuel feed, lowered furnace co	mbustor outlet tempe	attach additional pa	iges as necessary.			
_	Reduced fuel feed, lowered furnace co and changed fuel source.	modelor odnet tempe	rature, increase	d ammonia flow	, increased	boiler O2 and air	flow,
4. V	Vas the facility operating properly prior to the inc	ident?					
а	. (Yes b. (No, because:						
i. D	lid the incident result from analysts areas						
a	id the incident result from operator error, neglect Yes b. No, because:	or improper operation or m	raintenance procedu	res?			
	o. Tro, because.						
	as the facility returned to compliance?						
a.	No, because:						
b.	(* Yes (Attach evidence such as emissions calcul	ations, contemporaneous ope	rating logs or other cr	edible evidence \	· · · · · · · · · · · · · · · · · · ·		
ecti	on III - Certification Statement		3 131 11 12 14 14	colore colocitice.)			
ertif d otl	y under penalty of law that based on information her materials are true, accurate, and complete.	and belief formed after reas	onable inquiry, the s	tatements and infor	nation in this d	ocument and in all at	achments
		enalty of law that that I am th					oomineng.
ign	ature of Responsible Official:	y	ic responsible unici	at for this facility as	defined in AQM	D Regulation XXX.	
	$\mathcal{L} = \mathcal{L} = $		2. Title of Respon	sible Official:			
21	MOROLWEUN -		IVYCA	LIFORALL	A POE	RATIONS	
'rını	Name: (J)		4. Date:	1. 00000	7 040	CH110102	
Q.Y.	nesk Huffman		11/15/	2018			
 7 <i>!</i> .			6. Fax #:				
B	0-393-1308		1				
ldre	ess of Responsible Official:		1				
1	300 GENE WELMAS	мΛ	·				
1#	CHMITTIN ANTIMAS		ECCA		CA	92253	ľ
		City	Y		Clala		



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns*This written report is <u>in addition to requirements</u> to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To: SCAQMD P.O. Box 4941 Diamond Bar, CA 91765-0941

> Tel: (909) 396-3385 www.aqmd.gov

Secti	on I - Operator	Information								
1. Fac	ility Name (Business	Name of Operator That	Appears On Pe	rmit):				AQMD Facility ID (Availa	able On Permit Or Invi	oice Issued By
De	esert View Pow	ver					AQMD)): 	100154	
3. Add	fress:	62-300 Gene	Welmas Dr							
(wh	ere incident occurred)					Street Address				
		Mecca	*****					CA	92254	
				U	iity			State	Zip	
	ling Address: ifferent from Item 3)	Same As Abo	ve	····		Street Address				
5. Pro	vide the name, title, a	and phone number of	the person to c		ity urther informati	on:		State	Zip	
	L	ouie Lopez			Shift :	Superviso	r	(76	0) 262-1645	
		Name				itle			Phone#	
Section	on II - Reporting	of Breakdowns,	Deviations,	and Eme	rgencies					
1. This	written notification i	is to report a(n):								
Тур	e of Incident			Verbal Re	port Due* 📑			Written Report Due		
a.	Emergency under	Rule 3002(g)		Within 1	hour of discover	у		Within 2 working days exceeded.	from when the emiss	ion limit was
b.	Breakdown under: Rule 430 (No.	n-RECLAIM)		For Rule: discovery	s 430 & 2004 - V /.	Vithin 1 hour of	ŗ	For Rules 430 & 2004 breakdown is correcte start of the breakdown granted.	d, but no later than 30	days from
	Rule 218 (No. [See Rule 218]	n-RECLAIM)			218 – Within 24 ilure/shutdown e			For Rule 218 - With re	quired semi-annual re	ports.
c.	Deviation with exc		No. 22B]	shorter re	hours of discoverporting period if e State or Feder	required by an		Within 14 days of disc	overy of the deviation.	•
d. [t, Section K, Condition	Nos. 22D & 23J	Моле				With required semi-an	nual monitoring report	s.
2. The	incident was first dis	covered by: Louie	Lopez	Name			on	11/13/2018 Date	01:00 Time	Ç AM Œ PM
3. The	incident was first rep	orted by: Operate	or #12	·			on	11/13/2018	01:27	CAM
a. 6	Via Phone		Name o	of AQMD Sta	aff Person			Date	Time	(∓ PM
ь. С	In Person					Notification	Number (Required): 537975	****	
4. Whe	n did the incident act	ually occur?	11/13/2018 Date	3	01:00 Time	- (AM				
	Received By:			Assigned E	ly:			Inspector:		
	Date/Time Received:			Date/Time	Assigned:			Date/Time Rec	eived Assignment:	
AQMD	Date Delivered To Te	eam:		Date Revie	wed Inspector R	eport		Date Inspected	I Facility:	
USE	Team:	Sector:		Breakdown	Deviation Notific	cation No.		Date Complete	d Report:	
JIILI	Recommended Action	n; Cancel Notific	ation Gran	ıt Relief	Issue NOV No	•		Other:		
	Final Action:	Cancel Notific	ation Gran	t Relief	Issue NOV No			Other		

Boiler 1 Excess Emissions

Colmac Energy NOx lb/hr 3-Hr Rolling Excess Emissions for 11/13/2018

Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
NOx lb/hr 3-Hr Rolling	11/13/2018 12:00 PM	12:59 PM	1 hour	31.0	31.0	31.0	30	Not specified	
Total	duration		1 hour	· · · · · · · · · · · · · · · · · · ·					

Colmac Energy Mecca, CA

Boiler 1 Daily Emissions Report November 13, 2018

Emission Limits

Daily NOx lbs- 648 30-Day Rolling NOx lb/mmBtu - 0.3 SO2 lb/mmBtu - 1.2

Ноиг	02%	NOx ppm	NOx ppm @3% O2	NOx lb/mmBtu	NOx lbs	SO2 ppm	SO2 ppm @3% O2	SO2 lb/mmBtu	SO2 lbs	CO ppm	CO ppm @3% O2	CO lb/mmBtu	CO lbs	Process Status
00	9.6	41.2	65.3	0.091	26.84	9.7	15.4	0.030	8.81	10.0	15.8	0.013	3.97	Normal
01	9.6	41.9	66.4	0.093	27.53	9.5	15.0	0.029	8.65	10.0	15.8	0.013	3.99	Normal
02	9.8	38.0	61.3	0.086	24.70	10.3	16.6	0.032	9.34	10.0	16.1	0.014	3.95	Normal
03	9.8	39.1	63.1	0.088	25.48	7.9	12.7	0.025	7.12	10.0	16.1	0.014	3.98	Normal
04	9.9	40.2	65.4	0.091	26.20	9.5	15.5	0.030	8.60	10.0	16.3	0.014	3.97	Normal
05	9.9	38.6	62.8	0.088	25.05	11.6	18.9	0.037	10.44	10.0	16.3	0.014	3.95	Normal
06	10.2	39.6	66.2	0.092	25.33	10.6	17.7	0.034	9.48	10.0	16.7	0.014	3.90	Normal
07	10.1	42.7	70.8	0.099	27.69	5.8	9.6	0.019	5.20	10.0	16.6	0.014	3.94	Normal
08	10.0	40.1	65.9	0.092	25.58	8.9	14.6	0.028	7.88	10.0	16.4	0.014	3.88	Normal
09	10.5	39.8	68.5	0.096	24.99	10.9	18.8	0.036	9.55	10.0	17.2	0.015	3.82	Normal
10	10.2	42.0	70.3	0.098	26.87	10.1	16.9	0.033	8.99	10.0	16.7	0.014	3.89	Normal
11	9.8	52.6	84.8	0.118	38.08	8.1	13.1	0.025	8.17	10.0	16.1	0.014	4.33	Normal
12	10.1	40.6	67.3	0.094	26.61	7.0	11.6	0.023	6.38	10.0	16.6	0.014	3.99	Normal
13	Inval	Invai	Inval	Inval	inval	invai	inval	Inval	inval	inval	inval	Invai	Inval	Normal
14	Inval	inval	Inval	Inval	Inval	Inval	Inval	Inval	Inval	invai	Inval	inval	Inval	Normal
15	Inval	lnval	invai	inval	inval	inval	Inval	Inval	inval	inval	Inval	inval	Inval	Normal
16	Inval	invai	inval	Invai	Invai	Inval	Inval	Inval	inval	Inval	Inval	inval	Inval	Normal
17	inval	Inval	Inval	Inval	Inval	Inval	Inval	Inval	Inval	Inval	Inval	inval	inval	Normal
18	Inval	Inval	invai	Inval	Inval	Inval	inval	invai	inval	inval	Inval	inval	Inval	Normal
19	Inval	invai	Invai	Inval	Inval	Inval	Inval	Invai	inval	Inval	Inval	invai	Inval	Normal
•20	Invai	Inval	Inval	Inval	invai	Inval	inval	Inval	Inval	invai	inval	Inval	Inval	Normal
21	Inval	invai	Invai	Inval	Inval	Inval	Inval	Inval	Inval	Inval	inval	Inval	invai	Normal
22	inval	invai	invai	Invai	Inval	Inval	inval	Inval	Inval	invai	Inval	Inval	Inval	Normal
23	Inval	inval	Inval	inval	inval	Inval	Inval	Inval	Invai	Inval	Inval	invai	invai	Normal
	40.0								111141			inva:	HIVOI	Noma
Average Total	10.0	41.3	67.5	0.094	350.95	9.2	15.1	0.029	108.61	10.0	16.4	0.014		
30-Day Ring				0.087	550.55	:		0.027		•			51.6	1
365-Day Ring						1			51985					



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns

"This written report is in addition to requirements to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To: SCAQMD P.O. Box 4941 Diamond Bar, CA 91765-0941

> Tel: (909) 396-3385 www.aqmd.gov

ANIMA			TTTTLESCALLSCALLEDAS
Section I - Operator Information	the property of the second of	Alegainstayidi Karatayid	
1. Facility Name (Business Name of Operator That Appears On I	Permit): 2. Valid A AQMD)		le On Permit Or Invoice Issued By
Desert View Power			100154
62-300 Gene Welmas [)rive		
3. Address: 62-300 Gene vveimas to (where incident occurred)	Street Address		
Mecca		CA	92254-0758
TVCCCC	City	State	Zip
4. Mailing Address: Same as above			
(if different from Item 3)	Street Address		
5. Provide the name, title, and phone number of the person to	City	State	Zip
5. Provide the name, little, and priorite number of the person to	Contact of future information.		
Kevin Lawrence	Operations Manager	(760) 262-1644
Name	Title	Taran a da Organia (1914), ki sebena (191	Phone #
Section II - Reporting of Breakdowns, Deviation	s, and Emergencies		ARREST TO THE PROPERTY OF THE
This written notification is to report a(n):	and the second s		
Type of Incident	Verbal Report Due*	Written Report Due	
a. Emergency under Rule 3002(g)	Within 1 hour of discovery	Within 2 working days exceeded.	from when the emission limit was
b. 🔀 Breakdown under:			- Within 7 calendar days after
☐ Rule 430 (Non-RECLAIM)	For Rules 430 & 2004 - Within 1 hour of discovery.	start of the breakdown	d, but no later than 30 days from unless a written extension is
Rule 2004 (RECLAIM)	For Rule 218 – Within 24 hours or next business	granted.	
Rule 218 (Non-RECLAIM) [See Rule 218(f)(3)]	day for failure/shutdown exceeding 24 hours	For Rule 218 - With red	quired semi-annual reports.
c. Deviation with excess emissions [See Title V Permit, Section K, Condition No. 22B]	Within 72 hours of discovery of the deviation or shorter reporting period if required by an applicable State or Federal Regulation.	Within 14 days of disco	overy of the deviation.
d. Other Deviation [See Title V Permit, Section K, Condition Nos. 22D &	None 23]	With required semi-ani	nual monitoring reports.
loe Pedroza	on	12/04/2018	01:00
2. The incident was first discovered by: <u>Joe Pedroza</u>	Name Name	Date	Time C PM
3. The incident was first reported by: Operator #7	on	12/04/2018	01:12 © AM
Na	me of AQMD Staff Person	Date	Time C PM
a. 🕟 Via Phone			
b. C In Person	Notification Number	(Required): 540164	
4. When did the incident actually occur?12/04/2			
Date			
Received By:	Assigned By:	Inspector:	
Date/Time Received:	Date/Time Assigned:	Date/Time Red	ceived Assignment
AQMD Date Delivered To Team:	Date Reviewed Inspector Report:	Date Inspected	d Facility:
USE Team: Sector:	Breakdown/Deviation Notification No.	Date Complete	ed Report:
Recommended Action: Cancel Notification	Grant Relief Issue NOV No	Other:	
中央の ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・ ・	Grant Relief Issue NOV No	Other:	
4. 0 december 1			

	i. Has the incident stopped? a. ① Yes, on:_				Λ b. ⊜ No	
L		Date	Tim	e OPA		
6.	. What was the total duration of the incident?_	0	06	;		
7.	For equipment with an operating cycle, as def	Days Tined in Rule 430 (b)/2//a)	Hou	rs		
	and was the end of the operating cycle dunin	ig which the incident occurred:			06:00	•
8.	equipment and attach additional pages as nec	of equipment (by permit, applic	ation, or device number) affec	late ted. Attach photos	Time (when available) of the	C affected
	The diaphragm on the high pressure this failed the density of the sample	e nitrogen regulator failed	d. The nitrogen is used	to booster same	ole das pressures	\A/bom
9	this failed the density of the sample. The incident may have resulted in a:	gasses were increasing	causing a false high CC	reading.	- gad productes.	VVIICII
٠.	a. Violation of Permit Condition(s):					
	b. X Violation of AQMD Rule(s):					
10.	What was the probable cause of the incident?	Attach additional pages as nec	essarv			
	High pressure nitrogen regulator's di	iaphragm failure was the	cause of the incident.			
1.	Did the incident result in excess emissions?	○ No	e following and attach calculation			
	VOClbs	NOx				
		PM	os Other:	lbs		polluta
1	For RECLAIMfacilities Subject to Rule 2004 (i)(3) when determining compliance with your annual a	y ONLY: If excess emissions of allocations?	f NOx and/or SOx were reporte	ed in Item 11, do yo	u want these emissions	s to be coun
i		D. C No, for: NOx S				, 10 50 0001
	If box 12(b) above is checked, include all information	one of the transfer of the contraction of the contr	UX			
ır	Describe the steps taken to correct the problem (avoid future incidents. Include photos of the faile	- specified in Rule 2004(1)(3)(B) a	nd (C), as applicable.			
	avoid future incidents. Include photos of the faile Replaced pressure regulator and salib	ed equipment if available and at	tach additional pages as nece	ssary.	preventative measures	employed to
_	Replaced pressure regulator and calib	prated system	fach additional pages as nece	ssary.	preventative measures	employed to
- . V	Replaced pressure regulator and calib Vas the facility operating properly prior to the inc. No, because:	prated system	tach additional pages as nece	valis, etc.) and the pssary.	oreventative measures	employed to
- . V	Replaced pressure regulator and calib Vas the facility operating properly prior to the inc . • Yes b. • No, because: id the incident result from operator error, neglec	orated system sident? t or improper operation or main		valis, etc.) and the pssary.	reventative measures	employed to
a. D.	Replaced pressure regulator and calib Vas the facility operating properly prior to the inc . • Yes b. • No, because: id the incident result from operator error, neglec	orated system sident? t or improper operation or main		valis, etc.) and the	oreventative measures	employed to
- . W a. D.	Replaced pressure regulator and calib Vas the facility operating properly prior to the inc O Yes b. O No, because: id the incident result from operator error, neglec O Yes b. O No, because: equipi	orated system sident? t or improper operation or main		ans, etc.) and the	reventative measures	employed to
D. D. Ha	Replaced pressure regulator and calib Vas the facility operating properly prior to the inc . • Yes b. • No, because: id the incident result from operator error, neglec	orated system sident? t or improper operation or main		ssary.	reventative measures	employed to
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Boiler 2 Excess Emissions

Colmac Energy CO lb/hr 3-Hr Rolling Excess Emissions for 12/4/2018

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Deservoion	Start	End	Duration	Value	Min	Max	Limit	Reason	Action
Parameter CO lb/hr 3-Hr Rolling	12/4/2018 12:00 AM	5:59 AM	6 hours	14.0	13.0	14.0	13	Not specified	
Total	duration		6 hours						



South Coast Air Quality Management District

Form 500-N

Title V - Deviations, Emergencies & Breakdowns*This written report is <u>in addition to</u> requirements to verbally report certain types of incidents. Verbal reports may be made by calling AQMD at 1-800-288-7664 (1-800-CUT-SMOG) or AQMD enforcement personnel.

Mail To: SCAQMD P.O. Box 4941 Diamond Bar, CA 91765-0941

> Tel: (909) 396-3385 www.aqmd.gov

ection I - Operator Information Facility Name (Business Name of Operator That Appears On	Permit): 2. Valid AC	QMD Facility ID (Availab	le On Permit Or Invoice Issued I
Desert View Power	AQMD):		100154
Desert view Fower			
Address: 62-300 Gene Welmas			
(where incident occurred)	Street Address	<u> </u>	00054.0750
Mecca	O		92254-0758 Zip
	City	State	Z.ip
Mailing Address: Same as Above	Street Address		
(if different from Item 3)	33301,111		
	City	State	Zip
Provide the name, title, and phone number of the person t	o contact for further information:		
Kevin Lawrence	Operations Manager	(760	0) 262-1644
Name	Title		Phone #
ection II - Reporting of Breakdowns, Deviation	s, and Emergencies		· 医克克斯氏 · 医二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十
This written notification is to report a(n):	the many to the second of the		
Type of Incident	Verbal Report Due*	Written Report Due	
a. Emergency under Rule 3002(g)	Within 1 hour of discovery	Within 2 working days exceeded.	from when the emission limit wa
b. Breakdown under:			- Within 7 calendar days after
Rule 430 (Non-RECLAIM)	For Rules 430 & 2004 - Within 1 hour of discovery.	breakdown is corrected start of the breakdown	d, but no later than 30 days from n, unless a written extension is
Rule 2004 (RECLAIM)	•	granted.	
Rule 218 (Non-RECLAIM) [See Rule 218(f)(3)]	For Rule 218 – Within 24 hours or next business day for failure/shutdown exceeding 24 hours	The second secon	equired semi-annual reports.
c. Deviation with excess emissions [See Title V Permit, Section K, Condition No. 22B]	Within 72 hours of discovery of the deviation or shorter reporting period if required by an applicable State or Federal Regulation.	Within 14 days of disc	covery of the deviation.
d. Other Deviation	None	With required semi-ar	nnual monitoring reports.
[See Title V Permit, Section K, Condition Nos. 22D 8	. 23]	-	
loo Dodrozo		12/09/2018	10:00
The incident was first discovered by: Joe Pedroza	on Name	Date	Time C PN
Operator #7	· on	12/09/2018	10:11 @ AM
The incident was first reported by: Operator #7	ame of AQMD Staff Person	Date	Time C PN
a. 📀 Via Phone		F 40000	
b. C In Person	Notification Number	(Required): <u>540826</u>	
When did the incident actually occur? 12/09/2			
Dal Received By:	Assigned By:	Inspector:	
4 k2-97	Date/Time Assigned:	Date/Time Re	eceived Assignment:
Date/Time Received:	Date Reviewed Inspector Report:	Date Inspect	
OMD Date Delivered To Team: USE Team: Sector:	Breakdown/Deviation Notification No.	Date Comple	
NEY Sector:			
Recommended Action: Cancel Notification	Grant Relief Issue NOV No	Other:	
Cancel Notification	Grant Relief Issue NOV No.	Other:	

5.	Has the incident stopped?	a. Yes, o	n:	12/09/2018		10:00	_	b. C No
6.	What was the total duration	af the tours	_	Date		Time	_ ○ PM	D. E., 140
				0 Days		01		
	For equipment with an opera when was the end of the ope	rauny cycle of	iring which th	le 430 (b)(3)(A), he incident occurred?		Hours		
8.	Describe the incident and ide equipment and attach addition	entify each pie onal pages as r	ce of equipme recessary.	ent (by permit, applica	tion, or device num	Date ber) affected. Att	ach photos (wh	Time en available) of the affected
	With the heavy rain We impurities at higher rate	e've had the e then nom	hoilar ic	romulalman a				
	-						unter measu	res for a short period.
	a. X Violation of Permit Cond		EPA Peri	mit CB-OP 99-0	1 Section 2.A	.1		
	b. Violation of AQMD Rule((s):						
·U	What was the probable cause Combustion of fuel with	of the incident h Sulfur imp	? Attach add	ditional pages as nece	ssary.			
	Did the incident result in exces		○ No	Yes (Complete the	following and attach	calculations.)		
ı	□ voc	ibs	□ NOx _	lb	s 🗵 SOx	12.3	00 _{lbs} 1	□ u20
	□ co	_lbs	□ PM	lb	_			☐ H2S
. <i>F</i>	For RECLAIM facilities Subject then determining compliance v	to Rule 2004 (i)(3) ONLY: If	excess emissions of	NOx and/or SOx we	re reported in the	lbs	politu
•	. C Yes, for: NOx	With your annu 7 co	al allocations			re reported in iter	n 11, do you wa	nt these emissions to be cou
a.				ve 1440 🗀 aa				
a.			b. C No, fo	or: ∐NOx ∏so	Σ			
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Boiler 1 Excess Emissions

Colmac Energy SO2 lb/hr 3-Hr Rolling Excess Emissions for 12/9/2018

		302 ID/III 3-1 II Noiming Excess Environment									
Parameter	Start	End	Duration	Value	Min	Max	Limit	Reason	Action		
SO2 lb/hr 3-Hr Rolling	12/9/2018 9:00 AM	9:59 AM	1 hour	12.0	12.0	12.0	12	Not specified			
			1 hour								

Total duration

1 hour

Colmac Energy Mecca, CA

Boiler 1 Daily Compliance Report December 9, 2018

Emission Limits

NOx lb/hr - 30 SO2 lb/hr - 12 CO lb/hr - 13

Daily NOx lbs - 648

30-Day Rolling NOx Ib/mmBtu - 0.3 SO2 Ib/mmBtu - 1.2 SO2 ppm @3% O2 - 17.4

3-Hr Rolling NOx ppm @15% O2 - 94 SO2 ppm @15% O2 - 27 CO ppm @15% O2 - 231

Hour	3-Hr Ring NOx ppm @3% O2	NOx lb/mmBtu	3-Hr Ring NOx lb/hr	SO2 ppm @3% O2	3-Hr Ring SO2 ppm @3% O2	SO2 lb/mmBtu	3-Hr Ring	3-Hr Ring CO	3-Hr Ring	Proces
00	58.5	0.076	24.8	10.3		OOZ IDMINIBLU	SO2 lb/hr	ppm @3% O2	CO lb/hr	Status
01	56.6	0.074	23.8		12.9	0.020	7.6	14.7	2.0	
02	55.6	0.083	23.5	13.3	12.5	0.026	7.3	15.6	3.8	Norma
03	57.0	0.082	24.2	13.8	12.5	0.027	7.3	16.9	4.0 4.3	Norma
04	48.8	0.039	21.0	11.7	12.9	0.023	7.6	17.9		Normal
05	44.9	0.067	19.0	7.7	11.1	0.015	6.6	17.9	4.6	Normal
06	37.1	0.049	15.2	14.8	11.4	0.029	6.6	17.8	4.7	Normal
07	48.3	0.086		8.0	10.2	0.016	5.8		4.6	Normal
08	52.9	0.086	20.0 21.8	14.8	12.5	0.029	7.2	18.5 19.0	4.6	Normai
09	63.8	0.095		27.1	16.6	0.053	9.6		4.8	Normal
10	65.8	0.095	26.0	23.2	21.7	0.045	12.3	18.6	4.7	Normal
11	68.1	0.095	25.7	11.0	20.4	0.021	11.3	17.3	4.3	Normal
12	70.4	0.104	26.1	8.4	14.2	0.016	7.6	16.5	4.0	Normal
13	62.3		28.2	7.9	9.1	0.015	5.0	16.5	3.9	Normal
14	59.4	0.061	26.3	22.5	12.9	0.044	7.9	Cal	Cal	Normal
15	53.9	0.084	26.3	14.0	14.8	0.027		Cal	Cal	Normal
16	59.8	0.081	23.9	8.2	14.9	0.016	9.2	Cal	Cal	Normal
17	59.3	0.085	26.1	13.7	12.0	0.027	9.3	15.1	4.1	Normal
18		0.082	25.9	13.5	11.8	0.027	7.3	15.0	4.0	Normal
19	60.2	0.085	26.2	10.6	12.6	0.026	7.2	14.9	4.0	Normal
20	56.4	0.070	24.5	11.6	11.9	0.021	7.6	14.9	4.0	Normal
21	57.0	0.084	24.5	14.8	12.3		7.2	14.8	3.9	Normal
22	56.1	0.081	24.0	14.7	13.7	0.029	7.4	14.7	3.8	Normal
23	58.9	0.081	25.5	15.7	15.1	0.029	8.2	14.6	3.8	Normal
	48.9	0.043	21.1	12.5	14.3	0.031	9.1	15.1	4.0	Normal
Day Ring		0.084			14.0	0.024	8.6	17.2	4.5	Normal
ı		0.004		13.8		0.027				TTOTTTIC